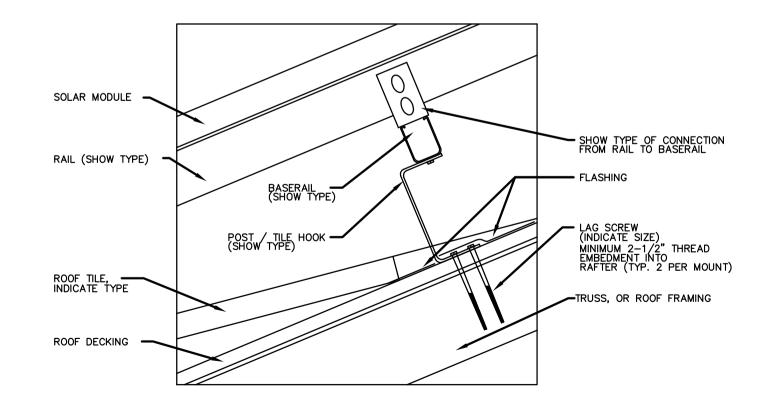


ELEVATION NTS

ENLARGED PARTIAL ROOF PLAN DETAIL ONTS



SOLAR MODULE MOUNTING DETAIL DETAIL (2)

NOTE:

1. THIS IS ONLY A SAMPLE FOR THE MOUNTING. SHOW EXACT MOUNTING DETAIL AS APPLIES TO YOUR PROJECT.

2. ALL ITALIC FONTS SHALL BE MODIFIED TO REFLECT ACTUAL PROJECT SPECIFIC DETAILS.

COMPAN	
SIGNATURE & LICENSE NUMBER	
KW RATING OF THE SYSTEM	
PROJECT NAME PROJECT ADRESS	Lecal description / Assessor's parcel number
REVISION	DATE

DRAWN BY:
PROJECT NO.
DATE:

SHEET

PV-2

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TO UTILITY

SINGLE LINE DIAGRAM

General Notes

- ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF CALIFORNIA ELECTRICAL CODE AND THE SAN DIEGO AREA ELECTRICAL NEWSLETTER, WILL BE INSTALLED AS REQUIRED.
- 2. ALTERNATE POWER SOURCE PLACARD SHALL BE METALLIC OR PLASTIC, THE PLAQUE. THIS PLAQUE WILL BE ATTACHED BY POP RIVETS OR SCREWS OR OTHER APPROVED METHOD. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANCE.
- PHOTOVOLTAIC DC CONDUCTORS ENTERING THE BUILDING SHALL BE INSTALLED IN METAL CONDUIT AND THE CONDUIT SHALL BE LABELED, "CAUTION DC CIRCUIT" OR EQUIVALENT EVERY 10 FT.
- EXPOSED NON-CURRENT CARRYING METAL PARTS OF MODULE FRAMES, EQUIPMENTS, AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.136 (A) REGARDLESS OF VOLTAGE.
- EACH MODULE SHALL BE GROUNDED USING THE SUPPLIED CONNECTION POINT IDENTIFIED ON THE MODULE AND THE MANUFACTURER'S
- IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAN NOT BE VERIFIED OR IS ONLY METALIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.
- THE INVERTER SHALL BE LISTED AS A UTILITY INTERACTIVE
- UNIT INSTALLED ON THE SAME BUILDING AS THE MODULES BUT NOT ON THE ROOF.
- THE INVERTER OUTPUT CIRCUIT CONDUCTORS SHALL TERMINATE WITHIN THE SERVICE PANEL IN ACCORDANCE WITH CEC 690.64(B)(7).
- 10. BACKFEED BREAKERS IN THE SERVICE PANEL SHALL BE

- 1. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED INSTALLATION INSTRUCTIONS. A COPY OF THESE INSTRUCTIONS ARE INCLUDED AS PART OF THIS PLAN.
- ENGRAVED OR MACHINE PRINTED LETTERS IN A CONTRASTING COLOR TO 12. ALL EQUIPMENT AND WIRING SHALL BE LISTED BY NATIONAL RECOGNIZED TESTING AGENCY
 - 13. USE MINIMUM 8 AWG EQUIPMENT GROUNDING CONDUCTOR (EGC) WHEN IT IS SUBJECT TO PHYSICAL DAMAGE, OR INSTALL THE EGC IN AN APPROVED RACEWAY.
 - ALL WIRING SHALL BE OF COPPER MATERIAL, AND KEPT **OUTSIDE OF THE BUILDING.**
 - 5. ALL ELECTRICAL EQUIPMENT INCLUDING THE SERVICE SHALL HAVE A LEGIBLE, VISIBLE, AND DURABLE MARKING INDICATING THE MANUFACTURER NAME, CURRENT, VOLTAGE, FREQUENCY, AND NUMBER OF PHASES.
 - 16. EACH INSTALLED EQUIPMENT, WIRING AND OVERCURRENT PROTECTIVE DEVICE (OCPD) SHALL HAVE A SHORT CIRCUIT RATING NOT LESS THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THEIR INPUT TERMINALS.
 - 17. THE INVERTER SHALL COMPLY ACCORDANCE WITH CEC

Specific Notes

IDENTIFY # OF WIRES, GAGE, WIRE INSULATION TYPE, CONDUIT TYPE & SIZE USE-2 (SINGLE CONDUCTORS IN AIR) AND/OR THWN-2 OR XHHW-2 OR RHW-2

#

- 2. EQUIPMENT GROUND COND.(EGC) PER 690.45(A)
- 3. WIRE TYPE: THWN-2 OR XHHW-2 OR RHW-2
- DC EGC PER 690.45(A)
- DC- AC BONDING JUMPER PER 690.47(C)(3) & 250.122 WRE TYPE: THWN-2 OR XHHW-2 OR RHW-2
- 6. DC GEC AND AC EGC PER 690.47(C)(3) & 250.122

SHOW THE VALUES FOR THE SYSTEM SPECIFIC ELECTRICAL CHARACTERISTICS (ARTICLE 690.53):

- 1. OPERATING CURRENT
- 2. OPERATING VOLTAGE
- 3. MAXIMUM SYSTEM VOLTAGE
- 4. SHORT-CIRCUIT CURRENT

SHOW THE FOLLOWING INFORMTION FOR THE PROJECT:

- 1. (#) OF STRINGS
- 2. (#) OF MODULES IN EACH STRING
- 3. MANUFACTURER'S NAME AND THE MODEL NUMBER OF MODULES
- 4. MANUFACTURER'S NAME AND THE MODEL NUMBER OF THE INVERTER(S)
- 5. SERVICE BUS AMPERE RATING
- 6. MAIN BREAKER AMPERE RATING
- 7. PV BACK-FED BREAKER AMPERE RATING

NAME OJECT

L060

COMPANY

SIGNATURE & LICENSE NUMBER

CLASSIFICATION C-10 OR C-46

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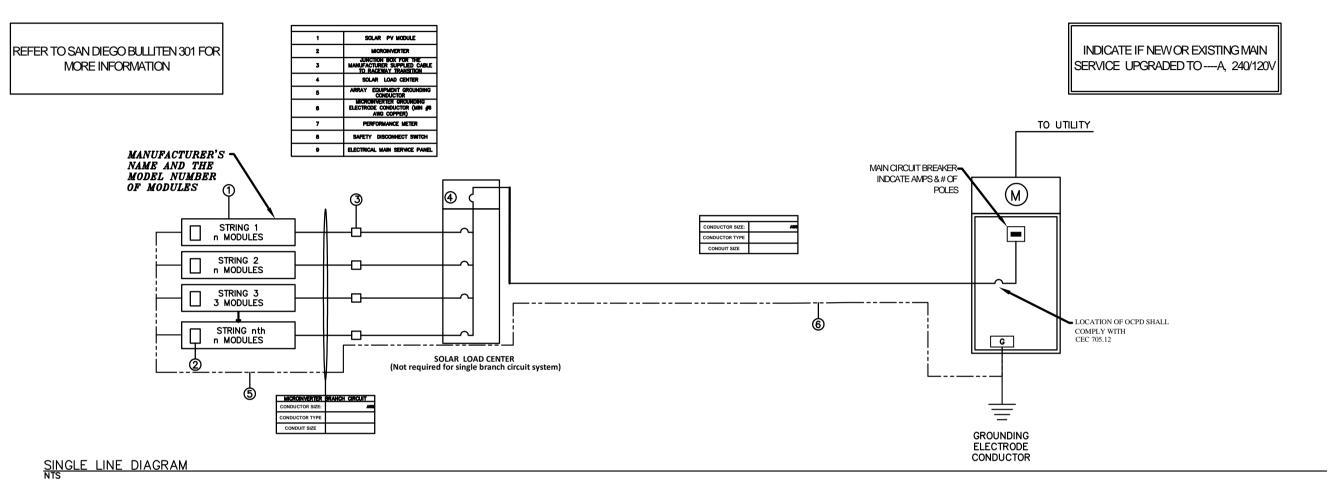
PR REVISION

DRAWN BY: PROJECT NO.

DATE: SHEET

PV-3





General Notes

- ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF CALIFORNIA ELECTRICAL CODE AND THE SAN DIEGO AREA ELECTRICAL NEWSLETTER, WILL BE INSTALLED AS REQUIRED.
- ALTERNATE POWER SOURCE PLACARD SHALL BE METALLIC OR PLASTIC, ENGRAVED OR MACHINE PRINTED LETTERS IN A CONTRASTING COLOR TO THE PLAQUE. THIS PLAQUE WILL BE ATTACHED BY POP RIVETS OR SCREWS OR OTHER APPROVED METHOD. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANCE.
- PHOTOVOLTAIC DC CONDUCTORS ENTERING THE BUILDING SHALL BE INSTALLED IN METAL CONDUIT AND THE CONDUIT SHALL BE LABELED, "CAUTION DC CIRCUIT" OR EQUIVALENT EVERY 10 FT."
- EXPOSED NON-CURRENT CARRYING METAL PARTS OF MODULE FRAMES. EQUIPMENTS, AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.136 (A) REGARDLESS OF VOLTAGE.
- 5. EACH MODULE SHALL BE GROUNDED USING THE SUPPLIED CONNECTION POINT IDENTIFIED ON THE MODULE AND THE MANUFACTURER'S
- 6. IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAN NOT BE VERIFIED OR IS ONLY METALIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.
- 7. THE INVERTER SHALL BE LISTED AS A UTILITY INTERACTIVE.
- UNIT INSTALLED ON THE SAME BUILDING AS THE MODULES BUT NOT ON THE ROOF.
- THE INVERTER OUTPUT CIRCUIT CONDUCTORS SHALL TERMINATE WITHIN THE SERVICE PANEL IN ACCORDANCE WITH CEC 690.64(B)(7).

- BACKFEED BREAKERS IN THE SERVICE PANEL SHALL BE SUITABLE AS SUCH.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED INSTALLATION INSTRUCTIONS. A COPY OF THESE INSTRUCTIONS ARE INCLUDED AS PART OF THIS PLAN.
- 12. ALL EQUIPMENT AND WIRING SHALL BE LISTED BY NATIONAL RECOGNIZED TESTING AGENCY
- 13. USE MINIMUM 8 AWG EQUIPMENT GROUNDING CONDUCTOR (EGC) WHEN IT IS SUBJECT TO PHYSICAL DAMAGE, OR INSTALL THE EGC IN AN APPROVED RACEWAY.
- ALL WIRING SHALL BE OF COPPER MATERIAL, AND **KEPT OUTSIDE OF THE BUILDING**
- ALL ELECTRICAL EQUIPMENT INCLUDING THE SERVICE SHALL HAVE A LEGIBLE, VISIBLE, AND DURABLE MARKING INDICATING THE MANUFACTURER NAME, CURRENT VOLTAGE, FREQUENCY, AND NUMBER OF PHASES.
- EACH INSTALLED EQUIPMENT, WIRING AND OVERCURRENT PROTECTIVE DEVICE (OCPD) SHALL HAVE A SHORT CIRCUIT RATING NOT LESS THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THEIR INPUT TERMINALS.
- 17. THE INVERTER SHALL COMPLY ACCORDANCE WITH CEC

Specific Notes

IDENTIFY # OF WIRES, GAGE, WIRE INSULATION TYPE, CONDUIT TYPE & SIZE USE-2 (SINGLE CONDUCTORS IN AIR) AND/OR THWN-2 OR XHHW-2 OR RHW-2

#

- EQUIPMENT GROUND COND.(EGC) PER 690.45(A)
- WRE TYPE: THWN-2 OR XHHW-2 OR RHW-2
- DC EGC PER 690.45(A)
- 5. DC- AC BONDING JUMPER PER 690.47(C)(3) & 250.122 WIRE TYPE: THWN-2 OR XHHW-2 OR RHW-2
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SHOW THE VALUES FOR THE SYSTEM SPECIFIC ELECTRICAL CHARACTERISTICS (ARTICLE 690.53):

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- 2. OPERATING VOLTAGE
- 3. MAXIMUM SYSTEM VOLTAGE
- 4. SHORT-CIRCUIT CURRENT

7. PV BACK-FED BREAKER AMPERE RATING

SHOW THE FOLLOWING INFORMTION FOR THE PROJECT:

1. (#) OF STRINGS 2. (#) OF MODULES IN EACH STRING 3. MANUFACTURER'S NAME AND THE MODEL NUMBER OF MODULES 4. MANUFACTURER'S NAME AND THE MODEL NUMBER OF THE INVERTER(S) 5. SERVICE BUS AMPERE RATING 6. MAIN BREAKER AMPERE RATING

SIGNATURE & LICENSE NUMBER CLASSIFICATION C-10 OR C-46

L060

COMPANY

NAME

PROJECT

REVISION DATE DRAWN BY: PROJECT NO. DATE:

PV-3

(CFC 605.11.3.2.1)

- SINGLE HIP NEEDS ONE 3' PATHWAY ON ARRAY FACES, PATHWAY SHOULD BE ALONG A STRUCTURALLY STRONG LOCATION SUCH AS A LOAD BEARING WALL
- CFC ADDS A STATEMENT THAT LADDER LOCATIONS CANNOT BE IN FRONT OF WINDOWS OR DOORS AND CANNOT CONFLICT WITH TREE LIMBS, WIRES, OR SIGNS.

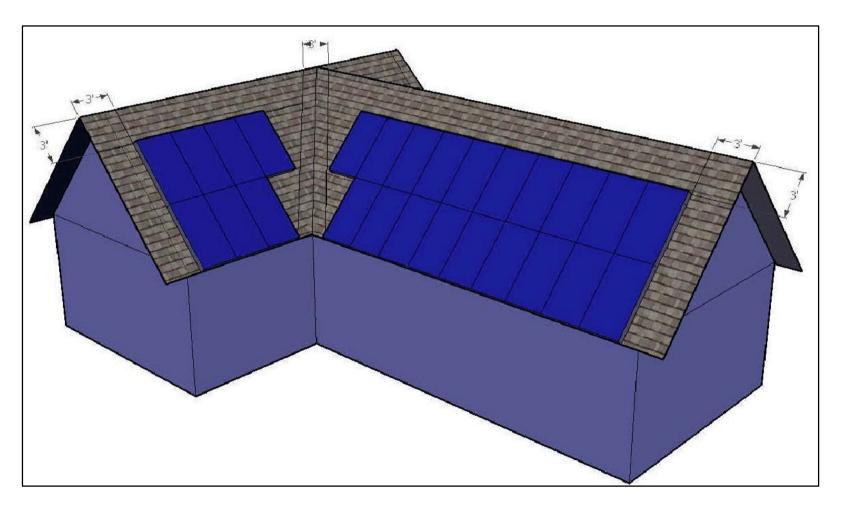
ROOF ACCESS-RESIDENTIAL WITH SINGLE RIDGE (CFC 605.11.3.2.2)

 SINGLE RIDGE NEEDS TWO 3' PATHWAYS ON ARRAY FACES ALONG EDGE OF LOAD BEARING EXTERIOR WALL

ROOF ACCESS-RESIDENTIAL HIPS AND VALLEYS (CFC 605.11.3.2.3)

1.5' SPACE ON EITHER SIDE OF A HIP OR VALLEY.

PV ARRAY CAN GO TO THE CENTER OF THE HIP OR VALLEY IF THE HIP OR VALLEY IS OF EQUAL LENGTH ON ADJACENT FACES AND NO MODULES ARE ON THE ADJACENT FACE.



CROSS GABLE WITH HIP & VALLEY ROOF SCALE:

INDICATE ON THE PLAN FIRE ACCESS POINT PER (CFC 605.11.3.2.1)

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ASSESSOR'S PARCEL NUM

PROJECT NAME
PROJECT ADRESS
LEGAL DESCRIPTION / ASSESSOR

REVISION DATE

DRAWN BY:

PROJECT NO. DATE:

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